

**Amendments to the Specification:**

After the title, please insert the following subheading and paragraph:

**CROSS REFERENCE TO RELATED APPLICATIONS**

This application is entitled to the benefit of and incorporates by reference essential subject matter disclosed in International Patent Application No. PCT/FI2004/000581 filed on October 4, 2004 and Finnish Application No. 20031438 filed October 3, 2003.

Before paragraph [0001], please insert the following subheading:

**FIELD OF THE INVENTION**

Please amend paragraph [0001] as follows:

[0001] The present invention relates to a method ~~according to the preamble of claim 1~~ for the desulphurization of the circulation of chemicals in a sulphate pulp mill.

Before paragraph [0002] please insert the following subheading:

**BACKGROUND OF THE INVENTION**

Please cancel paragraph [0003]:

[0003] ~~The invention further relates to the use according to claim 19 and arrangement according to the preamble of claim 20.~~

Before paragraph [0010], please insert the following subheading:

**BRIEF SUMMARY OF THE INVENTION**

Please amend paragraphs [0017] and [0018] and cancel paragraph [0019] as follows:

[0017] More specifically, according to the invention, the method ~~according to the invention is mainly characterized by what is stated in the characterizing part of claim 1~~ for the desulphurization of the circulation of chemicals in a sulphate pulp mill, includes the steps of comprising collecting concentrated odorous gases that

contain sulphur compounds and combusting them to oxidize the sulphur compounds, wherein the concentrated odorous gases are combusted at an air index below one in a first combustion unit, using the Claus process so that at least an essential part of the sulphur compounds are oxidized into elemental sulphur, nonetheless so that at least 10 molar % of the sulphur compounds taken through the Claus system are taken to be combusted in the combustion device of the second combustion unit, and the elemental sulphur is recovered in liquid or solid form.

[0018] According to the invention, The use of the Claus process is used according to the invention for the desulphurization of the circulation of chemicals in a sulphate pulp mill, so that the concentrated odorous gases are combusted with substoichiometric amounts of air into elemental sulphur in one or more combustion units of the Claus system and at least 10 molar % of the sulphur compounds taken through the Claus system are taken to be combusted in the combustion device of the at least one second combustion unit is described in claim 19.

[0019] The arrangement according to the invention is, in turn, characterized by what is stated in the characterizing part of claim 20.

Before paragraph [0029], please insert the following subheading:

**BRIEF DESCRIPTION OF THE DRAWINGS**

Before paragraph [0035], please insert the following subheading:

**DETAILED DESCRIPTION OF THE INVENTION**

Please insert the following new paragraph [0062]:

[0062] While the present invention has been illustrated and described with respect to a particular embodiment thereof, it should be appreciated by those of ordinary skill in the art that various modifications to this invention may be made without departing from the spirit and scope of the present invention.